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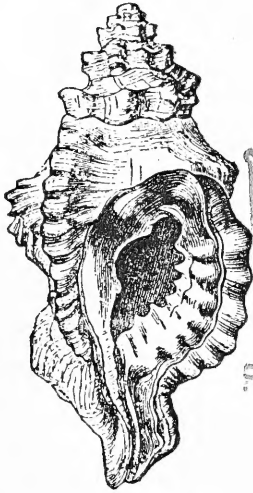
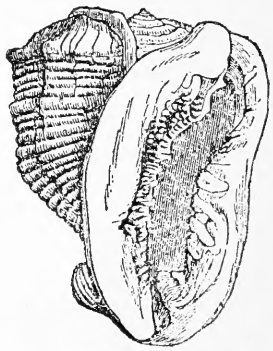
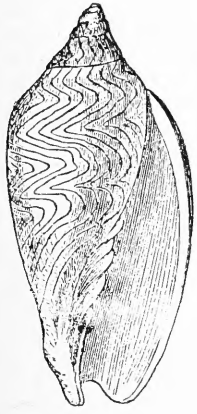
[Vol. 20, No. 3]

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ISSN 0747-6078

# Shells and Sea Life

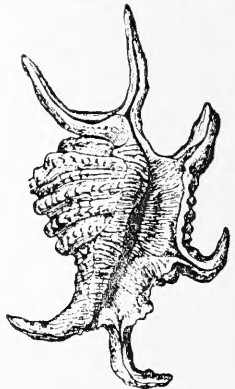
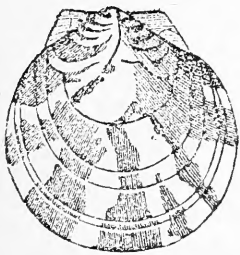
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# Shells and Sea Life

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#### Cover Illustrations

Miscellaneous shell engravings. Logomasthead hand set type printed on an 1885 Chandler & Price 8 x 12 letterpress. Shell engravings (cuts) printed on the same press. Hand fed substance 80 Shasta Suede dull coated paper.

#### In Memoriam

Ruth Sanborn Long

March 16, 1988

Mom died after a short illness today. She will be buried in the Sanborn family plot within a few days, in Redlands, California. She is survived by two sons, Steven and Kevin, and one daughter, Susan. We all miss her very much.

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# On the Tongan Reefs

Neiafu, Vava'u Island, Kingdom of Tonga.

Bob Purtymun

021086 Dive #2; 18.41.4S 174.01.6W  
Scuba 3-20 feet. 125 minutes. In the channel between Mala and Kapa Islands. Near the small island in the center of the channel.

After lunch Popiano moved the skiff over to the western side of the outcropping of coral. It's really a little island as there were a few coconut palms and an assortment of tropical plants growing in the sparse soil that clung to the cracks and crevices above high tide line. In Hawaii I have seen the locals plant a banana plant on solid rock by throwing a shovel full of dirt on the roots and then covering this with rocks. Wind blown silt and dead vegetation will accumulate over and around the rocks to form a pocket of soil. The banana will thrive and produce fruit in about 18 to 24 months in areas on the islands where there is ample rainfall.

But, back to shelling. The bottom around the island was hard coral with scattered cracks and crevices filled with silty sand. There were numerous dead coral slabs and blocks. Some in large piles. Here and there we found live coral heads some in clumps of 4 or 5 species of coral, and 8 to 10 feet in diameter. The area was alive with long-spined black sea urchins, a fact that was brought painfully to my attention when I bumped my left knee

on one. The old jogging suit that I was wearing to protect me from the sharp coral was pinned neatly to my knee. After the dive was over I found that I had acquired 28 purplish tatoo marks. This was quite painful at first but after a couple of hours the pain subsided and the marks disappeared after a few days.

This dive did not produce any *Conus floccatus*, nor any thing very rare or valuable. I collected 32 species of gastropods and 4 species of bivalves. Most abundant were the cones with 8 species collected. My best find was a *Turris crispa crispa* (Lamarck, 1816). W.O. Cernohorsky in *Marine Shells of the Pacific, Volume II* describes the habitat of this mollusc as follows. "The species is moderately common and extends westward from the Fiji Islands into the Indian Ocean." My shell is only 73 x 15mm and not as dark in color as the few others I have seen. However, it may be an eastward range extension.

Next month - Hurricane!!!

021086 Dive #2 18.41.4S X 174.01.6W  
Scuba, 125 minutes, 3 to 20 feet.

In the channel between Kapa and Nuku Islands. Out near the little island in the center of the channel. Hard coral bottom, cracks and crevices filled with silty sand. Numerous dead coral slabs and blocks, some live coral heads.

(continued next page)

GASTROPOD

- 1 *Conus omaria* #4414
- 1 *C. sponsalis* #4415
- 1 *C. capitalis* #4416
- 1 *C. moreleti* #7498
- 1 *C. striatus* #7158
- 1 *C. mamoreus* nn
- 2 *C. flavidus* nn
- 1 *C. frigidus* nn
- 1 *Cypraea eglantina* nn
- 1 *C. helvola* #4390
- 1 *C. cameola* #4389
- 1 *Imbricaria vanikorensis* #12253
- 4 *Vexillum exasperatum* #4412
- 1 *V. cadaverosum* #4411
- 2 *V. pacificum* #4410
- 2 *Chicoreus rosarius* nn 55x35mm & 68x44mm
- 1 *Turris crista* nn 73x15mm
- 1 *Peristernia incarnata* #4394
- 3 *P. ustulata* #12750
- 2 ?*Pseudostomatella* sp. #4403
- 4 *Euchelus atratus* #4391
- 1 *Melampus castaneus* #4392
- 1 *Cerithium nesioticum* #4393
- 2 ?*Cerithium* sp. #15011
- 3 *Engina alveolata* #4409
- 2 *Pyrene deshayesi* #4408
- 2 ?*Pupa* sp. #4407
- 2 *Proclita iostomus* #4406
- 1 *Strombus rugosus* #4405 (Juv.)
- 2 *Maculotriton bracteatus* #4404
- 1 *Cymatium aquatilis* nn
- 1 *Bursa granularis* #4413

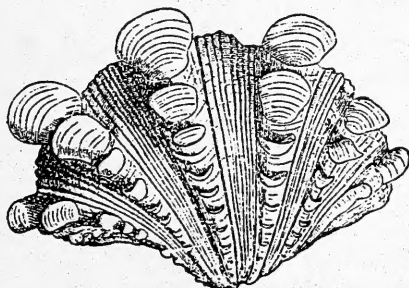


*Conus striatus* L.

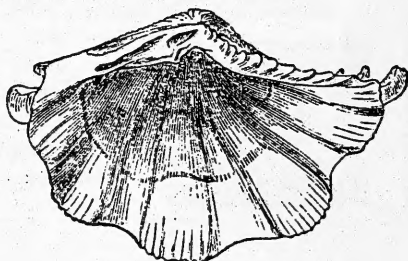


BIVALVE

- 3 *Loconcha castrensis* nn
- 6 *Chlamys squamosa* #4395-4400
- 1 *Tridacna squamosa* #4401 (very small)
- 1 bivalve sp. #4402



*Tridacna squamosa* (Lamarck).



*Tridacna squamosa*, on the inside (Lamarck)



### *Turbo & Modulus*

In some areas at depths of 40 feet or more on Florida's Gulf Coast, the predominant algal coloring is pink, and in a sand/rubble area the whole bottom can appear rosy. Many organisms are covered and thus colored by this algae, but several mollusks actually take on the ground color. Notable among them are *Modulus modulus* Linnæus, 1758 (which I was surprised to find at all at that depth), and *Turbo castanea* Gmelin, 1791. Both these species are commonly found in shallow bay grass beds and are usually brownish or greenish in such habitats. I have also found that *Turbo* tends to be more spinose in deeper water and smooth-shouldered in bays. — Peggy Williams, Rt. 3, Box 28, Sarasota, FL 33580

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# Shell Terminology

from *The Mollusca and Radiata. Arranged by Baron Cuvier...*  
London, 1834

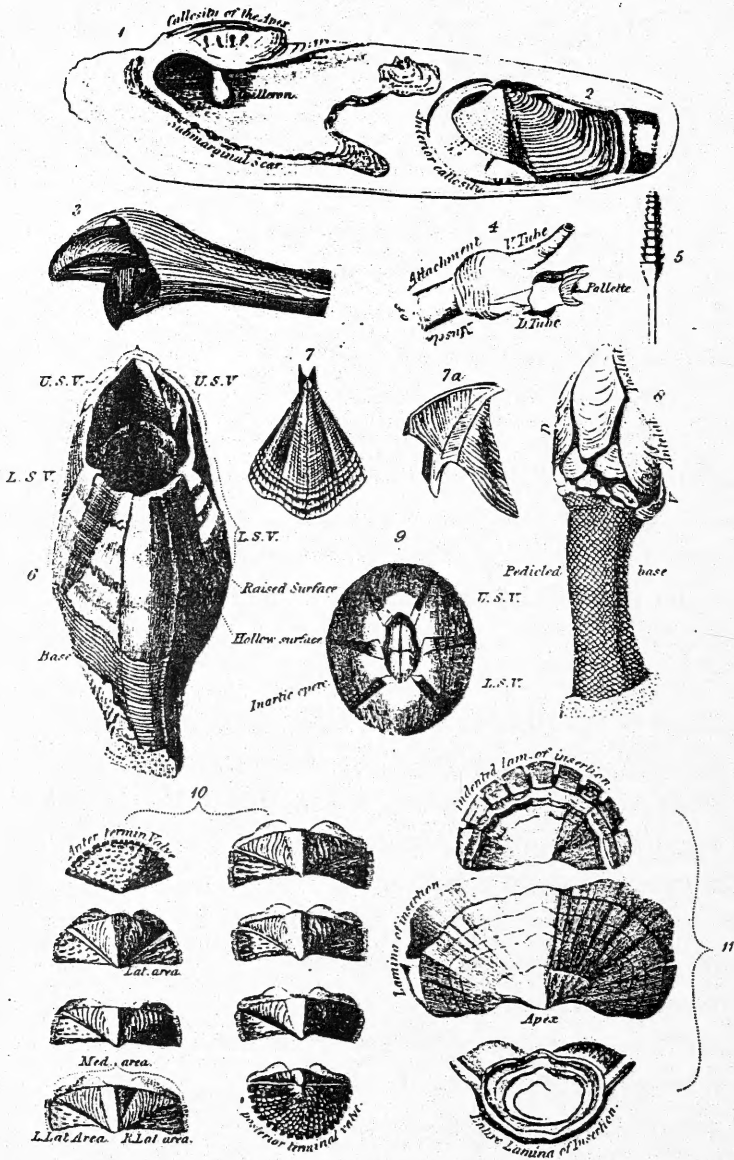
The figures of bivalve shells include,

1. *Cytherea lutea* (*Venus chione*, Lin.) in a normal or perpendicular position.
2. Back view of the same in the same position.
3. Interior view of the right valve of the same, in the same position.
4. Exterior view of the left valve of the same, in the position of Linnæus and Lamarck.

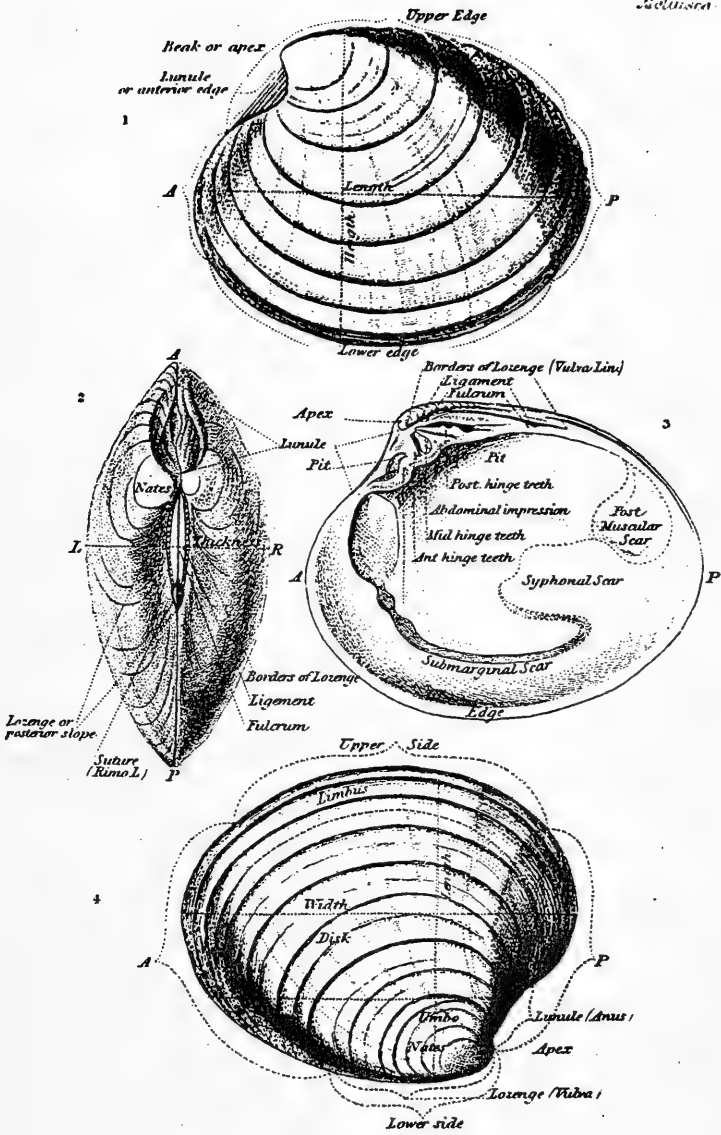
The letters A and P in each figure indicate the anterior and posterior parts of the shell, L and R the left and right.

The figures of multivalve shells include,

1. Interior of the right valve of *Pholas dactylus*.
2. Left view of *Pholadidoides Anglicanus*.
3. *Teredo nigra*, De Blain., with a portion of the animal.
4. Posterior extremity of *Teredo navalis*.
5. Articulated palette of a *Teredo*.
6. *Balanus* (*Lepas*, Lin.) *tintinnabulum*. U. S. V. upper side valve, L. S. V. lower side valve.
7. Operculum of *Balanus squamosus*.
8. Left view of *Polylepe vulgaris*, Blainv. D. back, or dorsal valve; V. belly, or ventral valve.
9. Upper view of *Lepas diadema*.
10. Valves of *Chiton squamosus*.
11. Valves of *Chiton raripilosus*.



Multivalve Shells.



Bivalve Shells.

London, Published by Whittaker & Co. Ave Maria Lane 1855

# Classifieds S&SL 20(3):10.

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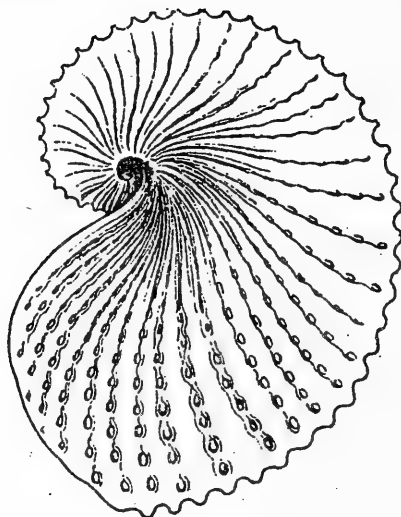
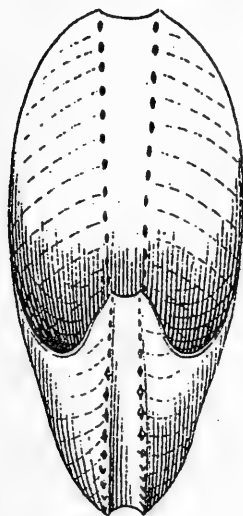
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*Argonauta gracilis* Kirk, 1884  
Trans. N.Z. Inst. 17, Art. VII:58-60, pl 13.



*ARGONAUTA GRACILIS*, n.sp.

ART. VII.—Description of a new Species of Paper Nautilus (*Argonauta gracilis*). By T. W. KIRK.

[Read before the Wellington Philosophical Society, 9th July, 1884.]

Plate XIII.

THAT we have in New Zealand two species of the beautiful "Paper Nautilus," so called on account of the extreme delicacy of its shell, I have for some years felt sure; but although I have examined numerous specimens, I have not until lately been able to obtain a sufficiently good series of each form to justify the creation of a new species, and am now indebted to Mr. C. H. Robson of Te Mahia, who had himself noticed the difference, for the loan of several examples which supply the links required to render the evidence complete.

The larger series examined, the individuals of which range from  $1\frac{1}{4}$ –9 inches across, undoubtedly belong to *A. tuberculata*, Shaw. The description given is defective, yet a comparison of the shell with drawings by Chenu, Reeve, and other authors, is conclusive.

I propose to amend the description as follows:—"Shell compressed, sides with transverse plications which are longitudinally tuberculiferous." Aperture nearly square posteriorly, margin much thickened, and the angles

# Original Description S&SL 20(3):12.

produced outwards so as to form pointed wing-like processes, projecting beyond the sides of the shell. Keels two, with compressed tubercles, white, brown on the spire, where also the keel tubercles are blackish-brown.

What I now consider to be a new species is distinguishable from the foregoing at a glance. The whole shell has a more graceful and regular outline, and is much more fragile looking, the aperture is narrower and rounded, especially posteriorly, there is no sign whatever of wing-like expansions, indeed the sides have a graceful sweep where the angle occurs in *A. tuberculata*. The transverse processes are finer and more numerous, consequently the tubercles forming the keels are smaller, the space between the keels is much less.

Some of these differences have been noticed before, but were thought to be probably due to age; that such is not the case will be apparent to all who examine the specimens on the table.

A shell containing the animal having been sent to the Canterbury Museum by Mr. Robson, Dr. von. Haast very kindly granted the loan of them, and at once forwarded them for my examination.

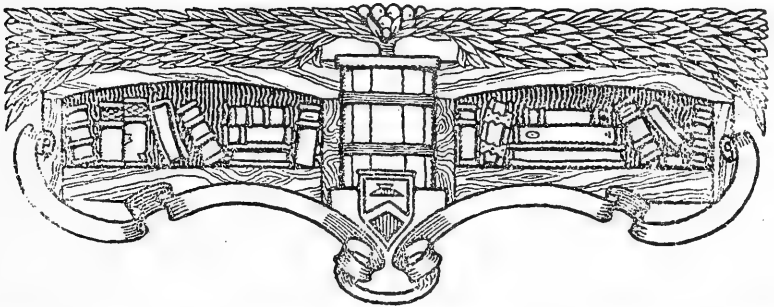
The animal proves to belong to the same species as a specimen from the Chatham Islands, described by Professor Hutton on p. 2 of the Catalogue of Marine Mollusca (1873), under the name of *A. tuberculata*.

The specimen now under consideration was procured at Portland Island, is somewhat larger than the Chatham Island one, and shows some slight differences, but only such as are frequently found between members of the same species. Such being the case, I cannot do better than quote Professor Hutton's description.

"*Animal*.—Body oblong, rounded behind, smooth, spotted with violet: eyes large, prominent; siphuncle united to the base of the arms by a lateral membrane; arms tapering, except the dorsal pair, which are palmate at the end, these are the shortest, the next pair to them the longest, and the others graduated; the lowest pair are keeled on the outside; membrane small, all the arms equally webbed; cups large, less than their own diameter apart, in two rows, with a single row of rather small cups round the mouth."

To which he adds the following remark:—"As the shell of this animal was not obtained, I refer it doubtfully to this species, 'as it differs from Dr. Gray's description."

It is satisfactory that conclusive evidence is now forthcoming, and that this animal with its exquisitely beautiful shell is to enjoy specific distinction. I would therefore suggest for this latest addition to the fleet, the name of *Aryonauta gracilis*.



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- Lamprell, K. 1987. *Spiny Oyster Shells of the World*. Bathurst, Australia, 84p., 37 clr pls, cr4to cloth, dj. [Accurate listings and excellent photos for the group]
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- Narchi, W. 1987. Aspectos ecológicos e adaptativos de alguns bivalves do litoral paulistas (continuação). *Informativo S B M* (72):9-12, clr plit. [*Anomalocardia brasiliana*, *Iphigenia brasiliensis*, *Mesodesma mactroides*, *Tivela mactroides*, *Donax hanleyanus*]
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### from Canada

Recently, there has been a great deal in the media about raising snails commercially. The agriculture departments in Canada (Federal and Provincial) look upon snails as agricultural pests and they are discouraging any interest in raising these.

I am trying to make contact with someone in the USA who can advise me regarding the commercial production of snails and any information pertinent to production. — B.J. Bendi, M.D., 750 West Broadway, Suite 608, Vancouver, B.C., Canada V5Z 1H5.

### from Sacramento, CA

Melissa Barbour is living and working in Sacramento. Not many branches but still interested. Her address is: 1381 Tuggle Way, Sacramento, CA 95831.

### Address Needed

Chris Kitting has moved from Texas, I believe back to Central California. Please send me a current address.

### from Dubai

Hope you are all well and enjoying the summer season. [August 1987] All is well here and as the temperature has dropped from 46°C to 39°C with the effects of the cooling shamals (winds) and a dust-haze that has blotted out the glare of the sun for the past few days. I have been tempted out to the East coast at Fujainah. This has gained some publicity of late with the mine incidents. Hasn't stopped me shelling though and all in all life is as ever, if a little on the tense side.

You should have received a couple of articles that I put together along with some slides. I will put a few more together for you — just let me know. There are some interesting sites with a variety of marine life that is very poorly understood (not least of all by me!) A couple of good finds were a live *Cypraea pulchra* (the first one I have found here but not the first recorded) It lives under small branching coral heads. Along with *C. arabica/grayana*, *C. nebrites*, *C. caurica* (large dark form) *C. gracilis*, *C. tindus*, *C. felina*, *C. fabula* et al. Also a nice *Homalocantha anatomica* (rare here) and as yet unidentified *Mitra* (I think the 3rd one that I cannot seem to put a name to since I arrived.)

We had a short holiday in the Maldives which was strictly for diving/photography. Did not collect much in the way of shells as they are quite hot on the conservation of resources. I did however get a lot of photographs of marine life. Some turned out very well and should you want some together with a few tips on holidays there as well as what the underwater world holds in store for the interested adventurer, I will gladly oblige. — A.J. "Tony" Woodward, Al Habtoor Motors, PO Box 9879, Dubai, U.A.E.

### from New Zealand

While in Fiji I prepared a couple of check-lists of the shells of Rotuma Is. and the Lau Group for the Fiji Museum. Because of the coup there, this institution has been forced to halt its publishing programme so I wondered if you might be interested in these. Illustrations for these can be provided. My book on the shells of Fiji, Samoa & Tonga is at the publishers. Will let you know when it is due out. — Brian Parkinson, 244 Hillsborough Road, Mt. Roskill, Auckland 4, New Zealand.

### In Memoriam

Lois Rehder, February, 1988. Wife of Dr. Harold Rehder and a strong supporter of malacology.

### from Sierra Vista, AZ

Panamic Specimen Shells has been purchased by Virginia Upton. She is handling specimens from West Mexico to Ecuador. — Panamic Specimen Shells, Virginia Upton, 2500 Meadowlark Drive, Sierra Vista, AZ 85635.

### from Germany

Our new land snail book is now available directly from Germany and from booksellers around the world. — Christa Hemmen, Verlag, Buchandlung und Antiquariat, Grillparzerstr. 22, D-6200 Wiesbaden, Federal Republic of Germany.

### from New York

Dr. William K. Emerson, Curator of Molluscs, Department of Invertebrates, American Museum of Natural History, has been elected a Fellow of the California Academy of Sciences. Last June, the AMU elected him as an Honorary Life Member of the American Malacological Union.

### from Seattle, WA

Ron Shimek, 11248 Military Road South, Seattle, WA 98168, (206) 243-8354. Just a short note saying I appreciated getting a copy of the Opisthobranch the other day. I suppose scaphopods, my major interest of late, don't qualify for newsy items in a newsletter of such title, but they really don't fit elsewhere either. Anyway, my first article on scaphs will be out in the January Veliger. Will send you a reprint whenever they arrive, hope that qualifies me for continued mailings.

I am editor of the Scaphopod chapter in the upcoming multivolume treatise, "Microscopic Anatomy of the invertebrates," and this along with the rest of my work on scaphs from Bamfield is keeping me pretty busy. Have been unable to do as much as rapidly as I want on either my science or my photography, but such is life I guess.





# Volunteer Divers Needed S&SL 20(3):15.

An underwater archaeology expedition to Fort Vancouver on the Columbia River is seeking volunteer scuba divers in the summer of 1988. Divers will search for trade items lost during transactions by the Hudson's Bay Company.

Historians and archaeologists often jokingly refer to the Hudson's Bay Company (HBC) as "Here Before God." And, in reality, the Hudson's Bay Company organization was an integral part of the Euro-American expansion into the west. While expanding their own financial capabilities, the Company provided safe hostelry to travelers, as well as the only source of supplies to settlers in the region, located in what is now Washington State (at its border with Oregon). Bricks, tableware, dry goods -- so much of what homesteaders needed -- could be obtained at Fort Vancouver.

Many of the items supplied by the Fort can be identified through artifacts that have been archaeologically excavated from the interior stockade area. They are the remains of what was left behind by settlers, and don't give a clear picture of everything the HBC provided.

The dock area below the Fort, however, was the Columbia River entrance onto North American soil for almost everything that was supplied by the HBC during its first year of occupation at this location. Many of the artifacts from this underwater archaeological site remain whole, in contrast to the artifacts excavated onshore. Product containers dropped overboard from boats or off the dock itself can be salvaged more than a century later with their contents still intact.

During World War I, a much larger wharf was built over the area once used by the HBC. The foundation of this twentieth century structure acted to protect the early nineteenth century artifacts from the current of the Columbia River.

In the summer of 1987, the area surrounding the Hudson's Bay dock location was explored by divers. At the conclusion of their diving season, many artifacts dating from World War I had been recovered, and the first indications of an HBC stratum had just been found.

Because the docking area used from 1829-1860 has now been exposed, the risk to the integrity of this stratum has multiplied significantly. A Foundation for Field Research team will help preserve the archaeological record by remapping the area after winter storms pass, collect artifacts by units, and initiate museum accessioning through both field and museum laboratory methods. These artifacts, after proper cataloging, will help to expand the understanding of the position of the Hudson's Bay Company in the history of the Northwest.



## Volunteer Divers Needed (continued) S&SL 20(3):16.

Expedition members must be certified scuba divers in order to recover artifacts from the underwater dock site. A grid system will be placed over the underwater site, and an airlift will be used to bring up the artifacts and soil to a recovery net floating on the surface. Recording techniques will be exacting, and may allow for only one dive per day, although two dives may be possible at times. A safety diver will be above water at all times.

Volunteers are needed June 25 - July 9, 1988 to work with an archaeologist on the dock area off Fort Vancouver. Each team member's tax-deductible share of the project's cost is \$1100, which covers meals, lodging, equipment, and diving expenses. Additional information is available by calling (619) 445-9264, or writing: Foundation for Field Research, 787 S. Grade Rd., Alpine, CA 92001.

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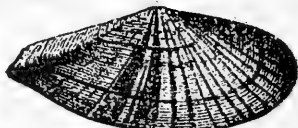
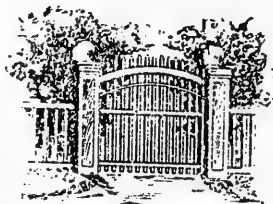


Fig. 138.—*Tellina virgata* (Linnéus).

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We list changes of address, new subscribers, and other addresses here as we receive them. Many of these changes come from the post office, which has been known to make a mistake & we also make mistakes. If you see an incorrect address here please notify us at once and we will publish a correction in the next issue. If you do NOT want your address listed here, please tell us when you write to us.



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# The Good Old Days S&SL 20(3):20.

from The Cambridge Natural History. Mollusca. 1895.

**Prices given for Shells.** — Very high prices have occasionally been given for individual specimens, particularly about thirty or forty years ago, when the mania for collecting was at its height. In those days certain families, such as the Volutidae, Conidae, and Cypraeidae, were the especial objects of a collector's ardour, and he spared no expense to make his set of the favourite genus as complete as possible. Thus at Stevens' auction-rooms in Covent Garden, on 21st July 1854, one specimen of *Conus cedo nulli* fetched £9: 10s., and another £16, a *C. omaicus* 16 guineas, *C. victor* £10, and *C. gloria maris*, the greatest prize of all, £43: 1s. At the Vernède sale, on 14th Dec. 1859 two *Conus omaicus* fetched £15 and £22, and a *C. gloria maris* £34. At the great Dennison sale, in April 1865, the *Conidae* fetched extravagant prices, six specimens averaging over £20 apiece. *Conus cedo nulli* went for £18 and £22, *C. omaicus* for £12, *C. malaccanus* for 10 guineas (this and one of the *cedo nulli* being the actual specimens figured in Reeve's *Conchologia Iconica*), *C. cervus* for £19 and *C. gloria maris* for £42. On 9th May 1866 a *Cypraea Broderipii* was sold at Stevens' auction-rooms for £13, and at the Dennison sale a *Cypraea princeps* fetched £40, and *C. guttata* £42. The *Volutidae*, although not quite touching these prices, have yet done fairly well. Mr. Dennison's *Voluta fusiformis* sold for £6: 15s., *V. papillaris* for £5, *V. cymbiola* for £5: 15s., *V. reticulata* for eight guineas, and two specimens of the rarest of all *Volutas*, *V. festiva*, for £14 and £16, both being figured in the *Conchologia*. At the same sale, two unique specimens of *Oniscia Dennisoni* fetched £17 and £18 respectively, and; at the Vernède sale, *Ancillaria Vernèdei* was bought for £6: 10s., and *Voluta piperata* for £7: 10s.

A unique specimen of a recent *Pleurotomaria* (*quoyana* F. and B.) was purchased by Miss de Burgh in 1873 for 25 guineas, and another species of the same genus (*adansoniana* Cr. and F.), of extraordinary size and beauty, is now offered for sale for about £100.

Bivalves have never fetched quite such high prices as univalves, but some of the favourite and showy genera have gone near to rival them. On 22nd June 1869, at Stevens', *Pecten solaris* fetched £4: 5s., *P. Reevii* £4: 8s., and *Cardita varia* 5 guineas. Mr. Dennison's specimens of *Pecten subnodosus* sold for £7, of *Corbula Sowerbyi* for £10, of *Pholadomya candida* for £8 and £13, while at the Vernède sale a *Chama damicornis* fetched £7.

# Calendar

1988

## MARCH

**Sanibel Shell Fair, March 3-6.** Contact: Sanibel-Captiva Shell Club, P.O. Box 355, Sanibel, FL 33957.

**Marco Island Shell Show, March 9-10, Marco Is., FL.** Contact: Dolly Bergman, 58 N. Collier Bl., Gulfview 1503, Marco Island, FL 33937, (813) 642-6595.

**Northeastern Section GSA, March 9-12, Portland, ME.** Contact: PRI, 1259 Trumansburg Rd., Ithaca, NY 14850.

**Treasure Coast Shell Show, March 19-20, Stuart, FL.** Contact: Treasure Coast Shell Club, c/o Bertez Bond, 99 Yacht Club Place, Tequesta, FL 33458.

**AAPG & SEPM Annual Meetings, March 20-23, Houston, TX.**

**Central Florida Shell Show, March 25-27, Orlando, FL.** Contact: Dave Green, 5883 Pitch Pine Dr., Orlando, FL 32819, (305) 345-0286.

## APRIL

**Greater Georgia Shell Show, April 8-10, Atlanta, GA.** Contact: Henry Close, 403 Ansley Villa Dr., Atlanta, GA 30324. (404) 892-6744.

**St. Louis Shell Show, April 22-24, St. Louis, MO.** Contact: George Karleskint, 2007 S. Compton Ave., St. Louis, MO 63104, (314) 865-0656.

**M.A.P.S. (Mid-American Paleontology Society) - National Fossil Exposition X, April 22-24, Western Illinois University, Macomb, IL.** Contact: Gilbert Norris, 2623 34th Ave., Ct., Rock Island, IL 61201. (309) 786-6505.

**Long Island Shell Show, April 29 - May 1, Freeport, NY.** Contact: John & Vi Greenlaw, 5 Etna Lane, Dix Hills, NY 11746, (516) 421-5235.

## MAY

**Geological Association of Canada, Mineralogical Association of Canada, Canadian Society of Petroleum Geologists - Joint Annual Meeting, May 22-25, St. Johns, Newfoundland.** Contact: John Fleming, PO Box 13577, Postal Station A, St. Johns, Newfoundland, Canada A1B 4B8 or phone 709-576-2768.

## JUNE

**American Malacological Union Annual Meeting, June 19-24, Charleston, SC.** Radisson Francis Marion Hotel. Symposia: "Applications of Nucleic Acid Techniques to Molluscan Systematics," "Systematics and Evolution of Non-marine Mollusks" and "History of Malacology." Contact: Richard E. Petit, P.O. Box 30, N. Myrtle Beach, SC 29582, (803) 249-1651.

**Salon International du Coquillage, normally 3rd week in June.**

## JULY

**Conchologists of America, July 11-15.** Hosted by the Southwest Florida Conchological Society at the Sheraton Harbor Place, Fort Myers, Florida. Gene Herbert & Al Bridell, General Convention Co-Chairmen. Contact: Phyllis & Bernard Pipher, 1116 N Street, Tekamah, NE 68061.

**Western Society of Malacologists 21st Annual Meeting, July 17-21, Sonoma State University.** Contact: M.J. James, Dept. of Geology, Sonoma State University, Rohnert Park, CA 94928, (707) 664-2301 or 664-2334.

## AUGUST

**Palaeontological Association, Geological Society of London & International Commission on the Lithosphere. Paleozoic Biogeography and Paleogeography. August 14-19, 1988, Oxford, England.** Contact: Christopher R. Scotese, 4425 Betty Street, Bellaire, TX 77401 (713) 663-2688 or W. S. Mckerrow, Dept. Earth Science, Parks Road, Oxford, England OX1 3PR (0865) 272000.

## SEPTEMBER

**Canadian Paleontology & Biostratigraphy Seminar, September 23-25, Winnipeg, Manitoba.** Contact: R.J. Elias, Dept. Geological Sciences, University of Manitoba, Canada R3T 2N2.

## OCTOBER

**Geological Society of America, Annual Meeting, October 30 - November 3, Denver, CO.** Contact: Abstracts Coordinator, 3300 Penrose Place, PO Box 9140, Boulder, CO 80301.

## NOVEMBER

**Hawaiian Malacological Society, Tentatively early November for combined Shell Show and Auction.** Contact: Hawaiian Malacological Society, Inc., P.O. Box 10391, Honolulu, HI 96816.

## DECEMBER

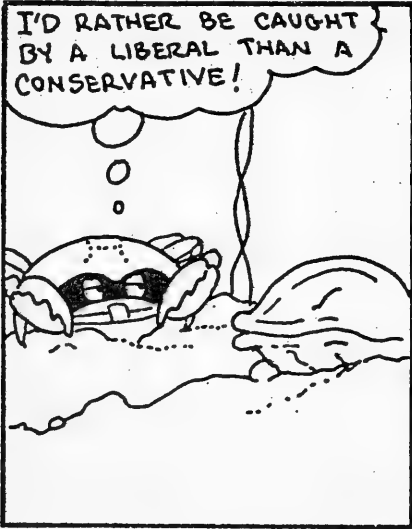
**Western Society of Naturalists, Annual Meeting, normally last week in December.** Details later.

1989

## MARCH

**The Murchison Symposium, an International Symposium on the Silurian System, March 28 - April 9, University of Keele, U.K.** Contact: M.G. Bassette, Dept. of Geology, National Museum of Wales, Cardiff CF1 3NP, U.K., phone 0222-397951.

**CLAM** by SCOOTER BEERS





## Suggestions for Authors

**SHELLS and SEA LIFE (S&SL)** welcomes notes and articles on any aspect of natural history. Articles on conchology will, however, receive priority. Our major interest is reference and review material of importance to professional and amateur alike. We include meeting notices, bibliography, field observations, book reviews, historical sketches and species group reviews among our primary interests. If you see something of probable interest to our readers, please forward a copy and we will attempt to obtain permission for republication.

The **on the Driftline** and **Reader Forum** sections of S&SL are wide open for short contributions from anyone. **Field Notes** are intended to provide a place where amateur and professional naturalists can record field observations. You can provide a real service by recording and reporting field observations, no matter how unimportant they may seem. (An example would be observation of egg laying including locality, date & species.) All it takes is an observant eye, a piece of paper, an envelope, and a stamp.

Black & white photographic prints may be submitted with articles. If it looks great in the print, with good contrast and few shadows, it should look good on the printed page. Please provide separate prints for light and dark specimens as they must be handled separately for best results. Please note that prints are frequently trimmed spray-mounted before scanning. It is not usually possible to return the print after use.

We attempt to absorb all production costs (typesetting, halftones etc.) but they should be borne in mind by authors. Donations to help defray printing expenses are always welcome.

It is the policy of S&SL not to change the writing style of authors, nevertheless there are a few policies that have been found necessary to decrease the possibility of misinterpretations and errors.

1) Manuscripts should be in final form, complete, carefully proof-read and with the name of the author(s) appearing at the top of each page. Number all pages consecutively. The sequence of manuscript parts should be as follows in most cases: title, introduction, materials and methods, results, discussion, acknowledgments, literature cited, figure legends, figures and tables.

2) Under no condition start a sentence with an abbreviation or with a number written in numerals. Within a sentence, numbers are expressed in numerals (e.g., 1, 21, 198).

3) Avoid the use of idioms, as scientific papers must be read by persons of many different tongues; idioms too frequently give rise to serious misunderstandings.

4) Scientific names are underlined to indicate that they should be set in *Italics*. A double straight underlining indicates that **SMALL CAPITALS** are required and a triple underlining indicates **ALL CAPITALS**. A wavy line by itself calls for **bold face**.

5) The first appearance of any scientific name of any species discussed or cited should be given in full, including author and year of the original description. The generic name should be written out whenever it is mentioned for the first time in any paragraph and any time if in the same paragraph two or more genera are mentioned that begin with the same letter.

6) The use of **FAMILY NAMES** is encouraged. The name should be in **CAPITALS** and be clearly associated with the species in that family.

7) Abbreviations and "common names" should appear adjacent to the full-length version or Latin name. Subsequent usages may be with only the abbreviation or the capitalized **Common Name**.

8) If you are using terms which are not readily available in standard dictionaries please include a short definition with each term -- separate from the article. This is preferable to defining the term in the text. We will include a **GLOSSARY** from time to time as necessary.

9) Footnotes are discouraged.

10) Square brackets "[ ]" are normally used to set off editorial comments or addition within articles.

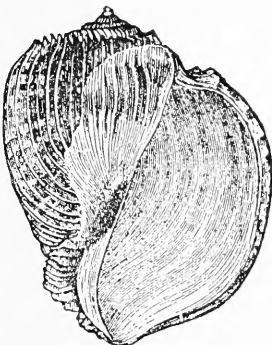
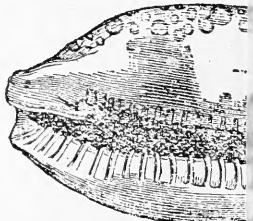
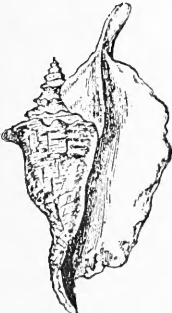
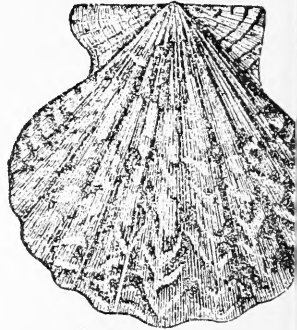
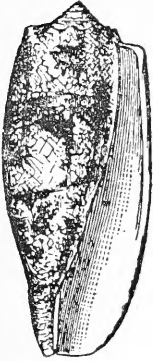
11) Authors should follow the style guidelines recommended in the "Style Manual for Biological Journals", which may be purchased from the American Institute of Biological Sciences, 2000 "P" Street, N.W., Washington, DC 20036. Original manuscripts should be typewritten on white paper, 8-1/2" x 11", and double-spaced throughout.

12) References in the text should be given by the name of the author(s) followed by the date of publication: (SMITH, 1951), (SMITH & JONES, 1952), or (SMITH et al, 1953).

13) The "literature cited" section must include only references cited in the text. We prefer complete citations including full author names, exact publication dates, series identification, volume and issue numbers, full pagination, plates, figures, tables & appendices. We will format them to meet our requirements.

14) Tables, numbered in arabic, should be on separate sheets, with the title at the top. Legends should be attached to each photograph. Text figures should be submitted ready for publication, in black ink and completely lettered. It is the author's responsibility that lettering is legible after final reduction and that lettering size is appropriate to the figure and the magazine format.

15) Articles and pictures accepted for publication, become the property of **SHELLS and SEA LIFE**. No material will be returned unless accompanied by return postage and mailing envelope with instructions for its disposition.





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